

## NH Public Utilities Commission

REC Aggregator Portal

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New Users [CLICK HERE](#) to setup your account for this form. Creating an account enables you to partially complete the form and return later to finish it or to make changes after the form is submitted. Be sure to create your account **BEFORE** entering information into the form, or the information will be lost.

Existing Users [CLICK HERE](#)

Basic Information

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NHPUC 20JUN'16AM11:49

Who is submitting this request?

Aggregator Batch Number

Are you registered in NH

- ☒ Yes  
☐ No

Aggregator name

NH Reg #

Aggregator Email

Other Aggregator name

Other aggregator email address

Facility Name

Facility Owner Name

Facility Owner email

libertyandunion@verizon.net

Owner Phone

603-631-4095

Facility Address

71 Stebbins Hill Rd

Facility Town/City

Lancaster

Facility State

NH

Facility Zip

03584

Is the facility address the same as the owner's mailing address

☐ Yes

☒ No

Mailing Address

PO Box 436

Mailing Town/City

Lancaster

Mailing State

NH

Mailing Zip

03584

Primary Contact

Karen Tenneson

Primary Contact

Facility Primary Contact

karenton@knollwoodenergy.com

Other Email Address

## Facility Information

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Class

Utility

Other Utility Name

To obtain a GIS ID contact:

James Webb

408 517 2174

jwebb@apx.com

GIS ID (include "NON")

Date of Initial Operation

Facility Operator Name, if applicable

Panel Make #1

Panel Model

Panel Quantity

Panel Rated Output

Other panel make

Other panel model

More Panel types?

- ☒ No  
☐ Yes

Panel Make #2

Panel Model

Panel Quantity

Panel Rated Output

More Panel types?

- ☒ No  
☐ Yes

Panel Make #3

Panel Model

Panel Quantity

Panel Rated Output

System capacity based on panels

Inverter Make

Other inverter make

Inverter Quantity

1

Add'l Inverter Quantity

NA

Additional Inverter Make

None

Rated Output - Primary Inverter

6000

Rated Output - Additional Inverter

System capacity based on single inverter make

6000

System capacity based on two inverter types

System capacity in kW as stated on the interconnection agreement

6.0

Revenue Grade Meter Make

Revenue Grade GIS Approved Meter

GE

Other revenue-grade GIS-approved meter

Was this facility installed directly by the customer (no electrician involved)?

- ☐ Yes  
☒ No

Electrician Name & Number

Other

Other Electrician Name & Number

Dick Ratco #10483M

Installation Company

Solar Dave LLC

Other Installation Company Name

Other Inst. Company Address

Other Inst. Company City

Other Inst. Company State

Other Inst. Company Zip

Equipment Vendor Company Name

Independent Monitor Name & Company

Paul Button - Energy Audits Unlimited

Other Monitor Name and Company

Is the installer also the equipment supplier?

- ☒ Yes  
☐ No

Equipment Vendor

Please attach your completed interconnection agreement including Exhibit B.

[https://fs30.formsite.com/jan1947/files/f-5-99-7003846\\_QOc0I37y\\_N2638\\_Wipperman\\_PV\\_-\\_Certificat](https://fs30.formsite.com/jan1947/files/f-5-99-7003846_QOc0I37y_N2638_Wipperman_PV_-_Certificat)

The project described in this application will meet the metering requirements of PUC 2506 including:

Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the independent monitor or a designated representative.

A revenue quality meter (meeting ANSI C-12.1-2008 for installations up to and including 10 kW, or ANSI C12.16 or better for installations greater than 10kW up to 1 mW) is used to measure the electricity generated.

The facility owner has certified to the independent monitor that the meter operates according to manufacturing standards.

The meter shall be maintained according to the manufacturer's recommendations.

The project is installed and operating in conformance with applicable building codes.

A copy of the facility's interconnection agreement is attached.

Please attach additional document here

[https://fs30.formsite.com/jan1947/files/f-5-168-7003846\\_E9cyoQhr\\_Wipperman\\_Agreements\\_part\\_3\\_-](https://fs30.formsite.com/jan1947/files/f-5-168-7003846_E9cyoQhr_Wipperman_Agreements_part_3_-)

Please attach additional document here

[https://fs30.formsite.com/jan1947/files/f-5-173-7003846\\_IdVpNPsc\\_N2638\\_Wipperman\\_PV\\_-\\_Process](https://fs30.formsite.com/jan1947/files/f-5-173-7003846_IdVpNPsc_N2638_Wipperman_PV_-_Process)

Aggregator statement of accuracy

Sign your name using a mouse or, if you are using a touch-screen device, a stylus or other pointer.



Print Name

Karen Tonnesen

Date Signed

06/15/2016

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
INTERCONNECTION STANDARDS FOR INVERTERS  
SIZED UP TO 100 KVA (Continued)

RECEIVED  
MAY 16 2013  
SECD

**Exhibit B - Certificate of Completion for Simplified Process Interconnections**

Installation Information:

☐ Check if owner-installed

Customer or Company Name (print): Darin + Jan Wiperman  
Contact Person, if Company: \_\_\_\_\_  
Mailing Address: PO Box 436  
City: Lancaster State: NH Zip Code: 03584  
Telephone (Daytime): 603-631-4095 (Evening): same  
Facsimile Number: \_\_\_\_\_ E-Mail Address: jan.wiperman@verizon.net

Address of Facility (if different from above): 71 Stebbins Hill Road  
City: Lancaster State: NH Zip Code: 03584  
Generation Vendor: \_\_\_\_\_ Contact Person: \_\_\_\_\_

I hereby certify that the system hardware is in compliance with Puc 900.

Vendor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Electrical Contractor's Name (if appropriate): Solarwindelectric  
Mailing Address: 440 Stagecoach Rd  
City: Bradford State: VT Zip Code: 05033  
Telephone (Daytime): 802-222-9028 (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: solarwindelectric@mac.com  
License number: 10483 M

Date of approval to install Facility granted by the Company: 2/15/2013 Installation Date: 5/15/2013  
Application ID number: N2638

Inspection:

The system has been installed and inspected in compliance with the local Building/Electrical Code of

New Hampshire - state (no local Lancaster code)  
(City/County)

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection): [Signature]

Name (printed): Dick Ratico

Date: 5/15/2013

Customer Certification:

I hereby certify that, to the best of my knowledge, all the information contained in this Interconnection Notice is true and correct. This system has been installed and shall be operated in compliance with applicable electrical standards. Also, the initial start up test required by Puc 905.04 has been successfully completed.

Customer Signature: [Signature] Date: 5/15/2013



## New Hampshire PUC REC Certification Application Owner Statements

The information provided on this application for New Hampshire Renewable Energy Certificate eligibility is accurate to the best of my knowledge and I authorize Knollwood Energy to act on my behalf in filing said application.

The project described in this application will meet the metering requirements of PUC 2506 including:

Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the independent monitor, or a designated representative.

A revenue quality meter is used to measure the electricity generated.

The facility owner has certified to the independent monitor that the meter operates according to manufacturing standards.

The meter shall be maintained according to the manufacturer's recommendations.

The project is installed and operating in conformance with applicable building codes.

A copy of the facility's interconnection agreement is attached.

Darin P Wipperman

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Printed Name of signature owner

Darin P Wipperman  
Darin P Wipperman (May 24, 2016)

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Signature of system owner

12638

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
INTERCONNECTION STANDARDS FOR INVERTERS  
SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement

RECEIVED  
FEB 14 2013  
SESD

Date Prepared: Feb 10, 2013

**Contact Information:**

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)

Customer or Company Name (print): Darin and Jan Wiperman

Contact Person, if Company: \_\_\_\_\_

Mailing Address: PO Box 436

City: Lancaster State: NH Zip Code: 03584

Telephone (Daytime): 603-631-4095 (Evening): same

Facsimile Number: \_\_\_\_\_ E-Mail Address: jan.wiperman@verizon.net

**Alternative Contact Information** (e.g., System installation contractor or coordinating company, if appropriate):

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Electrical Contractor Contact Information** (if appropriate):

Name: Solarwind Electric - Dick Ratico

Mailing Address: 440 Old Stage Coach Rd

City: Bradford State: VT Zip Code: 05033

Telephone (Daytime): \_\_\_\_\_ (Evening): 802-222-9028

Facsimile Number: \_\_\_\_\_ E-Mail Address: solarwindelectric@mac.com

**Facility Site Information:**

Facility (Site) Address: 71 Stebbins Hill Rd

City: Lancaster State: NH Zip Code: 03584

Electric Service Company: PSNH Account Number: 56507136034 Meter Number: 5497396

**Non-Default Service Customers Only:**

Competitive Electric

Energy Supply Company: \_\_\_\_\_ Account Number: \_\_\_\_\_

(Customer's with a Competitive Energy Supply Company should verify the Terms & Conditions of their contract with their Energy Supply Company.)

**Facility Machine Information:**

Generator/ Inverter Manufacturer: POWER-ONE Model Name & Number: PVI-6000-OUTD-115-240 Quantity: 1

Nameplate Rating: 6.18 (kW) \_\_\_\_\_ (kVA) \_\_\_\_\_ (AC Volts) 6kW Phase: Single ☒ Three ☐

System Design Capacity: 4.5 (kW) \_\_\_\_\_ (kVA) \_\_\_\_\_ Battery Backup: Yes ☐ No ☒

Net Metering: If Renewably Fueled, will the account be Net Metered? Yes ☒ No ☐

Prime Mover: Photovoltaic ☒ Reciprocating Engine ☐ Fuel Cell ☐ Turbine ☐ Other ☐

Energy Source: Solar ☒ Wind ☐ Hydro ☐ Diesel ☐ Natural Gas ☐ Fuel Oil ☐ Other ☐

N2638

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
INTERCONNECTION STANDARDS FOR INVERTERS  
SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement



Inverter-based Generating Facilities:

UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements)

Yes ☒ No ☐ Power-One model PVI-6000-OUTD-US-240

The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use in Independent Power Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This term "Listed" is then marked on the equipment and supporting documentation. *Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.*

External Manual Disconnect Switch:

An External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.'

Yes ☐ No ☒ (we don't believe one is required - please let us know if it is.)

Location of External Manual Disconnect Switch: \_\_\_\_\_

Project Estimated Install Date: April 2013 Project Estimated In-Service Date: May 1, 2013

Interconnecting Customer Signature:

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the Terms and Conditions for Simplified Process Interconnections attached hereto:

Customer Signature: [Signature] Title: (owner) Date: 2/10/2013  
*Please include, a one-line and/or three line drawing of proposed installation*

**For PSNH Use Only**

Approval to Install Facility:

Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this Agreement, and agreement to any system modifications, if required.

Are system modifications required? Yes ☐ No ☒ To be Determined ☐

Company Signature: Michael Motta Title: Sr. Engineer Date: 2-14-13

PSNH Application Project ID#: \_\_\_\_\_

REGARDING EXTERNAL MANUAL DX SWITCH -  
YOU ARE ALL SET - NOT REQUIRED. 2/15/13 MDM

122638

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
INTERCONNECTION STANDARDS FOR INVERTERS  
SIZED UP TO 100 KVA

Terms and Conditions for Simplified Process Interconnections

Company waives inspection/Witness Test: Yes ☒ No ☐ Date of inspection/Witness Test: \_\_\_\_\_

MDM  
PSNH

1. **Construction of the Facility.** The Interconnecting Customer may proceed to construct the Facility in compliance with the specifications of its Application once the Approval to Install the Facility has been signed by the Company.
2. **Interconnection and operation.** The Interconnecting Customer may operate Facility and interconnect with the Company's system once the all of the following has occurred:
  - 2.1. **Municipal Inspection.** Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
  - 2.2. **Certificate of Completion.** The Interconnecting Customer returns the Certificate of Completion to the Agreement to the Company at address noted.
  - 2.3. **Company has completed or waived the right to inspection.**
3. **Company Right of Inspection.** The Company will make every attempt within ten (10) business days after receipt of the Certificate of Completion, and upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Standard. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. All projects larger than 10 kVA will be witness tested, unless waived by the Company.
4. **Safe Operations and Maintenance.** The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Disconnection.** The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
6. **Metering and Billing.** All renewable Facilities approved under this Agreement that qualify for net metering, as approved by the Commission from time to time, and the following is necessary to implement the net metering provisions:
  - 6.1. **Interconnecting Customer Provides:** The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. In some cases the Interconnecting Customer may be required to install a separate telephone line.
  - 6.2. **Company Installs Meter.** The Company will make every attempt to furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
7. **Indemnification.** Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
8. **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
9. **Termination.** This Agreement may be terminated under the following conditions:
  - 9.1. **By Mutual Agreement.** The Parties agree in writing to terminate the Agreement.
  - 9.2. **By Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
  - 9.3. **By Company.** The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs or, in the good faith judgment of the Company, may imminently impair the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
10. **Assignment/Transfer of Ownership of the Facility.** This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
11. **Interconnection Standard.** These Terms and Conditions are pursuant to the Company's "Interconnection Standards for Inverters Sized Up to 100 kVA" for the Interconnection of Customer-Owned Generating Facilities, as approved by the Commission and as the same may be amended from time to time ("Interconnection Standard"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Standard (see Company's website for the complete document).